

analyze the run-time specification;  
configure one or more measurement devices according to the run-time specification; and  
generate a run-time, wherein said run-time is executable to perform the measurement task.

3. (original) The memory medium of claim 2, wherein said run-time builder is further operable to:

reserve one or more resources according to the selected run-time specification in response to said analyzing the selected run-time specification.

4. (original) The memory medium of claim 2, wherein said run-time builder is further operable to:

analyze changes made to the run-time specification; and  
change configuration of said one or more measurement devices in response to said analyzing, wherein the configuration changes correspond to said changes made to the run-time specification.

5. (original) The memory medium of claim 2, wherein the expert system is further operable to:

analyze incremental changes made to the measurement task specification; and  
populate one or more run-time specification change lists with measurement primitive settings;

wherein the run-time builder is further operable to:

modify the run-time based on said one or more run-time specification change lists.

26. (original) The memory medium of claim 1, wherein the expert system is further operable to validate the measurement task specification.

27. (original) The memory medium of claim 1, wherein the measurement task comprises a plurality of measurement sub-tasks.

28. (original) The memory medium of claim 1, wherein the measurement task comprises a complex measurement operation using a plurality of measurement devices.

29. (original) The memory medium of claim 1, wherein at least one of the one or more measurement devices comprises a hardware measurement device.

30. (original) The memory medium of claim 1, wherein at least one of the one or more measurement devices comprises a virtual measurement device.

56. (original) A measurement system, comprising:  
a measurement task specifier, operable to generate a measurement task specification for a measurement task in response to user input;  
an expert system, operable to:  
    analyze the generated measurement task specification;  
    validate the generated measurement task specification; and  
    generate a run-time specification for the measurement task;  
a run-time builder, operable to:  
    analyze the run-time specification;  
    configure one or more measurement devices according to the run-time specification; and  
    generate a run-time, wherein said run-time is executable to perform the measurement task.

57. (original) The measurement system of claim 56, wherein the run-time builder is further operable to:  
    reserve one or more resources according to the run-time specification in response to said analyzing the selected run-time specification.

58. (original) The measurement system of claim 56, wherein said run-time builder is further operable to:

analyze changes made to the run-time specification; and

change configuration of the one or more measurement devices in response to said analyzing, wherein the configuration changes correspond to said changes made to the run-time specification.

59. (original) The memory medium of claim 56, wherein the expert system is further operable to:

analyze incremental changes made to the measurement task specification; and

populate one or more run-time specification change lists with measurement primitive settings;

wherein the run-time builder is further operable to:

modify the run-time based on said run-time specification change list.

68. (original) The measurement system of claim 56, further comprising:

the one or more measurement devices which are operable to respectively perform portions of the measurement task.